

MEMORANDUM FOR CAROLYN L. HUNTOON
ASSISTANT SECRETARY FOR
ENVIRONMENTAL MANAGEMENT

AUG 31 2000

FROM: JAMES DECKER
ACTING DIRECTOR
OFFICE OF SCIENCE

SUBJECT: TRANSITION OF EXCESS FACILITIES AT THE
OAK RIDGE RESERVATION

This memo contains a Memorandum of Agreement (MOA) by which the Office of Science (SC) documents its request to transfer two excess facilities located at the Oak Ridge Reservation (ORR) to the Office of Environmental Management (EM).

The two facilities to be transferred are the Hot Storage Garden – Building 3597 (located at ORNL site) and the Research Services Facility – Building 9735 (located at the Y-12 site).

With changes in SC's program missions, SC no longer requires the use of the above facilities at the ORR. Per DOE Order 430.1A, "Life Cycle Asset Management," excess contaminated facilities are transferred from the landlord programs to EM for final disposition. The Pipeline Working Group (PWG), led by EM's Andrew P. Szilagy, was established to implement this transition. The PWG, in coordination with the National Facility Deactivation Initiative, assessed the subject facilities and determined that \$141,000 per year is required to maintain the subject facilities in a safe and stable condition until their final disposition.

Consistent with the requirements of DOE Order 430.1A and as described in the MOA (attached), SC will transfer a target of \$141,000 to EM in fiscal year 2002 to facilitate the surveillance and maintenance of the above facilities.

Attachment

cc w/attachment:
T. J. Glauthier, S-2
E. J. Moniz, S-3
M. Telson, CFO

bcc w/attachment:
J Yates, SC-82
B. Sullivan, SC-82
C. Miller, SC-82
R. De Lorenzo, SC-63

SC-82BSULLIVAN:mgw-38429:6/22/00:Q:sc-82public:sullivan:MEMO TO
HUNTOON.DOC

SC-82	SC-82	SC-80	SC-4	SC-3	SC-2	SC-1
BSullivan	JYates	MJohnson	Metzler	MJohnson	PDehmer	JDecker
7/6/00	7/6/00	7/9/00	7/12/00	7/18/00	7/17/00	7/1/00



Department of Energy
Germantown, MD 20874-1290

July 26, 2000

MEMORANDUM FOR CAROLYN L. HUNTOON
ASSISTANT SECRETARY
FOR ENVIRONMENTAL MANAGEMENT

FROM: JAMES F. DECKER
ACTING DIRECTOR
OFFICE OF SCIENCE

*MDS
FOR 7/26/00*

SUBJECT: Transition of Excess Facilities at the
Oak Ridge Reservation

Attached is a Memorandum of Agreement (MOA) in which the Office of Science (SC) documents its request to transfer two excess facilities located at the Oak Ridge Reservation (ORR) to the Office of Environmental Management (EM). The two facilities to be transferred are the Hot Storage Garden – Building 3597 (located at ORNL site) and the Research Services Facility – Building 9735 (located at the Y-12 site).

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Attachment

cc w/attachment:
T. J. Glauthier, S-2
E. J. Moniz, S-3
M. Telson, CFO



Printed with soy ink on recycled paper

Memorandum of AgreementTransition of Excess Facilities at Oak Ridge National Lab and Y-12**PURPOSE**

The purpose of this Memorandum of Agreement (MOA) is to document transfer of the overall management and financial responsibilities, and the conditions of transfer, from the Office of Science (SC) to the Office of Environmental Management (EM) for two excess SC facilities at the Oak Ridge Reservation. The two facilities to be transferred are the Hot Storage Garden – Building 3597 (located at ORNL site) and the Research Services Facility – Building 9735 (located at the Y-12 site).

BACKGROUND

Because of the realignment of the SC missions at ORNL, these two facilities are no longer needed for SC purposes. These contaminated facilities have also been declared excess to the ORNL/Y-12 missions. In accordance with DOE Order 430.1A, "Life Cycle Asset Management (LCAM)," excess contaminated facilities will be transferred to EM for final disposition. In accordance with LCAM, SC is responsible for the characterization and stabilization of the facilities (which includes the removal of hazardous, radioactive and other materials) prior to the transfer to EM. Additionally, appropriate funding and budget target to maintain the facilities safely, transfers to EM. Therefore, the Assistant Secretary for Environmental Management and the Director of the Office of Science enter into this agreement to transfer management and funding responsibilities for these two facilities from SC to EM.

FACILITY DESCRIPTIONS

See attached.

BASIS FOR MOA¹

The Office of Environmental Management, in coordination with SC, conducted a survey and assessment of each facility and prepared a Survey Report documenting the current conditions and surveillance and maintenance and other requirements for the facilities. These assessments provide for the basis of this agreement.

¹ The Report of Survey of Oak Ridge Building 3597 – Hot Storage Gardens and the Report of Survey of Oak Ridge Building 9735 –Research Services, dated May 8, 2000, provides detailed facility descriptions, as well as the basis of the surveillance and maintenance cost estimates.

ROLES AND RESPONSIBILITIES

1. The Office of Environmental Management will become responsible for managing and funding the conduct of surveillance and maintenance, deactivation, and eventual decommissioning of Buildings 3597 and 9735 at Oak Ridge on October 1, 2001 (FY 2002).
2. All Delegations of Authority approved by SC will remain in effect unless specifically revised by EM.
3. Prior to transfer in FY 2002, SC will maintain the facilities in a stable and known condition, including maintaining safety systems and utilities in place at the time this MOA was executed. Any significant changes in the surveillance and maintenance (S&M) activities, or unanticipated changes in facility condition, will be identified and coordinated with EM.

PROVISION OF TRANSFER

The Office of Science will remove all excess equipment and materials/waste from Building 9735 prior to transfer.

FINANCIAL

The Office of Science will transfer \$141,000 of Target baseline funding to EM commencing with fiscal year 2002. EM will assume budgeting responsibility commencing in FY 2002. Should Building 3597's below grade wells – believed to be empty – contain radioactive or hazardous materials (spent fuel rods, etc.), SC will remove or fund removal of the material and/or will fund any additional S&M requirements.

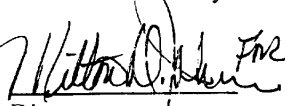
TIMING

Except as otherwise specified in this agreement, the provisions of this agreement shall take effect on October 1, 2001.

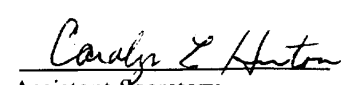
Resolution of Disputes

Both SC and EM will work to resolve cooperatively all issues relating to the planning, budgeting, and execution of this agreement.

Where disputes arising under this agreement cannot be resolved, the matter shall be addressed to the Under Secretary of Energy.


Director
Office of Science

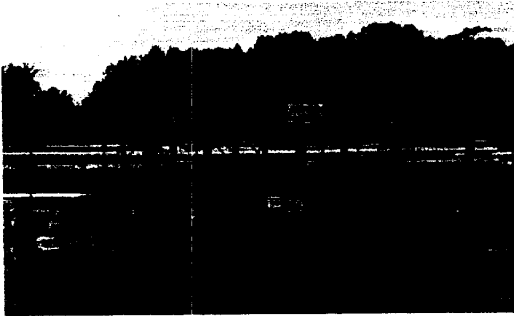

Date


Assistant Secretary
for Environmental Management

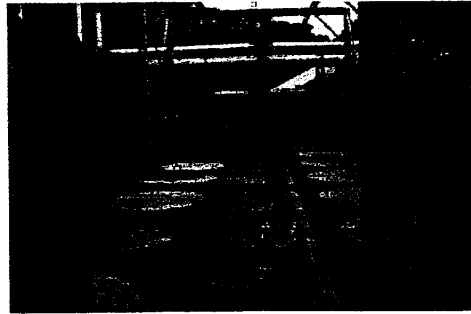

Date

Hot Storage Garden, ORNL

Outside View



Inside View



Facility Description: Building 3597 was built in 1959. It is a fenced-in, open air facility. It is a 12 m by 5 m concrete pad with two rows of pre-cast, reinforced concrete, cylindrical pipes that form 14 vertical storage wells with caps. A 5 m by 2.7 m by 3.7 m deep reinforced concrete canal of approximately 41,600 liters adjoins the pad. An enclosed sand filter and pump house with non-operating equipment used previously for water cleanup is still in place. Structural steel is in place with hoisting equipment.

The area was previously utilized to store radioactive components (including spent fuel rods) in below-grade wells and in the partially above-grade (about half), water filled canal. It is exposed to the weather. The stored materials were stated to have been removed in 1980 (This could not be verified). The storage canal can be emptied via drains to Y-12 central water processing.

The boundary of transfer includes the 3597 facility (facility footprint plus approximately six feet in each direction). The boundary for each utility associated with the facility is the first source connection exterior to the facility.

History:

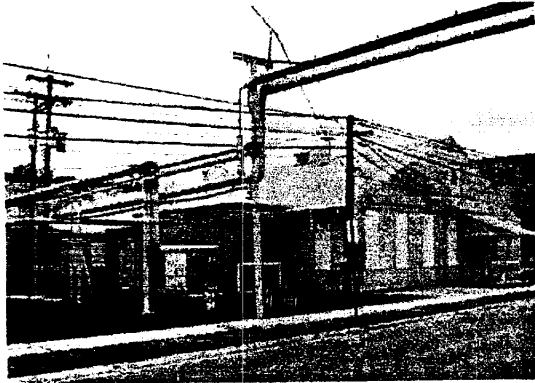
The ORNL Chemical Technology Division used the facility until it was shutdown in 1980.

Surveillance & Maintenance (S&M) Activities: Periodic radiation surveys, weed control and disposal as LLW, structural inspections (canal).

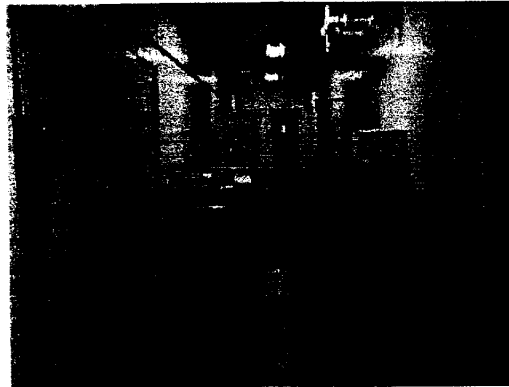
S&M Costs: \$15, 000.

Bldg. 9735, ORNL (Y-12)

Outside View



Inside View



Facility Description: The main portion of Building 9735 is a one story, tile block construction, wood truss and shingle roof, with concrete and tile floor. The south end is constructed as a large, block construction, open 2-story bay with a basement. The building is approximately 218 ft. long by 52 ft. wide (11,300 sq. ft.) on the first floor with 1,800 sq. ft. on the second floor.

The north end of the facility consists of 10 single story laboratory rooms on one side of a center hallway with offices and service equipment rooms on the other side. Six contaminated hoods remain in the facility, as does the contaminated exhaust system.

History: Building 9735 was constructed in 1943 and contained a developmental calutron which was a machine for electromagnetic separation of uranium isotopes. Within the past 20 to 30 years, the top half of the calutron was removed and the basement in which the bottom half remained, was filled with grout. Until determined otherwise, it must be assumed that the buried portion of the calutron has at least residual uranium. A slight amount of uranium "contamination" also remains in the area above the buried portion.

Prior to the transfer of this facility in 1951 ownership was with AEC. Accurate process knowledge of this facility during that time is not available regarding the specific use and using organizations of this facility. It is presumed but unverified that chemical and analytical functions were performed.

After the calutron ceased operations, the facility was used for analysis of radioactive materials utilizing mass spectrometry within ventilated hoods. From 1951 until its final closure in 1996, the facility housed the ORNL Analytical Chemistry Division through 1993, hence the ORNL Chemical and Analytical Sciences division and the Chemical and Analytical Services Organization (Central).

The boundary of transfer includes Building 9735 (building footprint plus approximately six feet in each direction). The boundary for each utility associated with the facility is the first source connection exterior to the facility.

Surveillance & Maintenance (S&M) Activities: Periodic radiation surveys (\$35,000), required structural surveys and routine maintenance (roofing, ceiling tiles, asbestos tile management, leaking pipes, etc.) (\$33,000), utilities (\$26,000) and overhead (\$32,000).

S&M Costs: \$126,000.

MOA – Transfer of Buildings 3597 and 9735 at ORNL

Building 3597 Facility Costs

		<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
Laborer-Ground Maint.	Hours	175	175	175	175	175	175
	Rate	49.98	51.48	53.03	54.98	56.08	57.20
	Total \$	8,747	9,009	9,280	9,622	9,814	10,010
Health Phys. Tech.	Hours	10	10	10	10	10	10
	Rate	46.65	48.05	49.05	48.88	49.86	50.85
	Total \$	467	481	495	489	499	509
Total Maint./Operations		9,214	9,490	9,775	10,111	10,313	10,520
Overhead Rate		45.92	42.70	39.07	41.70	40.50	40.50
Overhead Applied		4,231	4,052	3,819	4,216	4,177	4,261
TOTAL		13,445	13,542	13,594	14,327	14,490	14,781

Note: Cost estimates are based on prior-year experience.

June 21, 2000

MOA – Transfer of Buildings 3597 and 9735 at ORNL

Building 9735 Facility Costs

		<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
Laborer-Grounds Maint.	Hours	1,118	429	579	504	504	504
	Rate	50.86	50.25	60.72	60.22	63.08	66.00
	Total \$	56,861	21,532	35,127	30,321	31,761	33,231
Health Physics Technician	Hours	534	534	534	534	534	534
	Rate	50.86	50.25	60.72	60.22	63.08	66.00
	Total \$	27,159	26,834	32,424	32,157	33,685	35,244
Utilities		23,612	24,320	25,050	25,800	26,316	26,842
Total Direct Costs		107,633	72,686	92,601	88,278	91,762	95,317
Overhead Rate		35.06	36.94	19.74	24.80	33.10	33.70
Overhead Applied		37,736	26,850	18,279	21,893	30,373	32,122
Total		145,369	99,536	110,880	110,171	122,135	127,439